



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

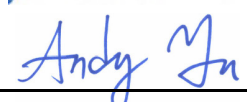
Product Description: SAW Rx Filter 751MHz LTE Band 13 SMD 1109 (10MHz BW)

TST Part No.: TA2062A

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Andy Yu 

Date: _____ 2019/12/13

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the change



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SAW Rx Filter 751MHz LTE Band 13 SMD 1109 (10MHz BW)

MODEL NO.:TA2062A

REV.3.0

A. MAXIMUM RATING:

1. Operating temperature range: -30 °C to +85 °C
2. Storage temperature range: -40 °C to +100 °C
3. Input power : 10dBm
4. Maximum DC Voltage: +/-5 V
5. Moisture Sensitivity Level: Level 1 (MSL1)
6. ESD 100V(MM) 200V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$

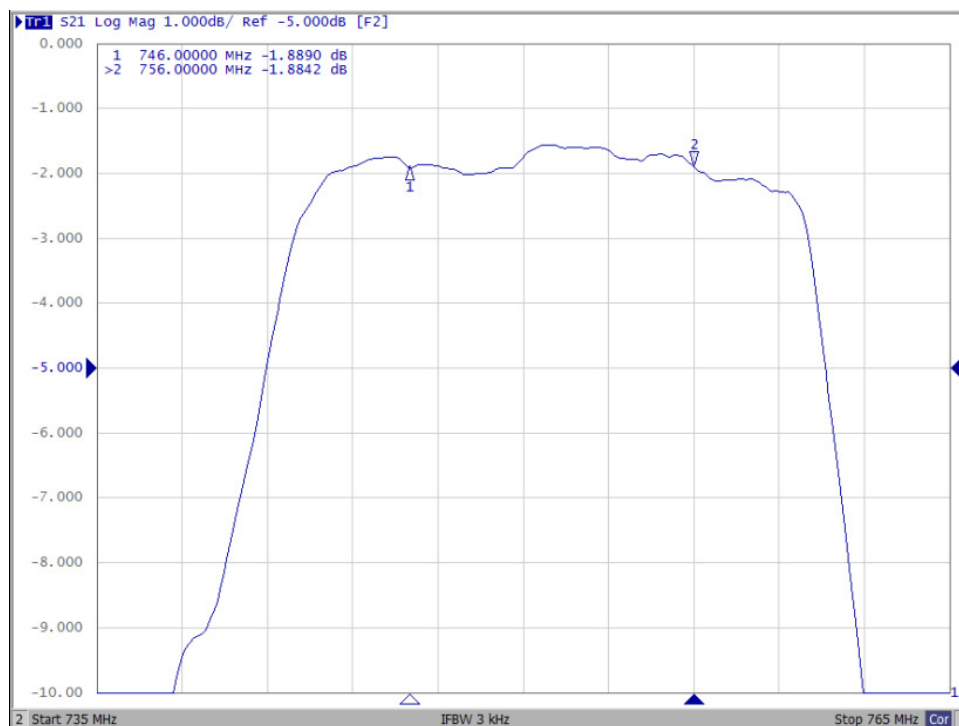
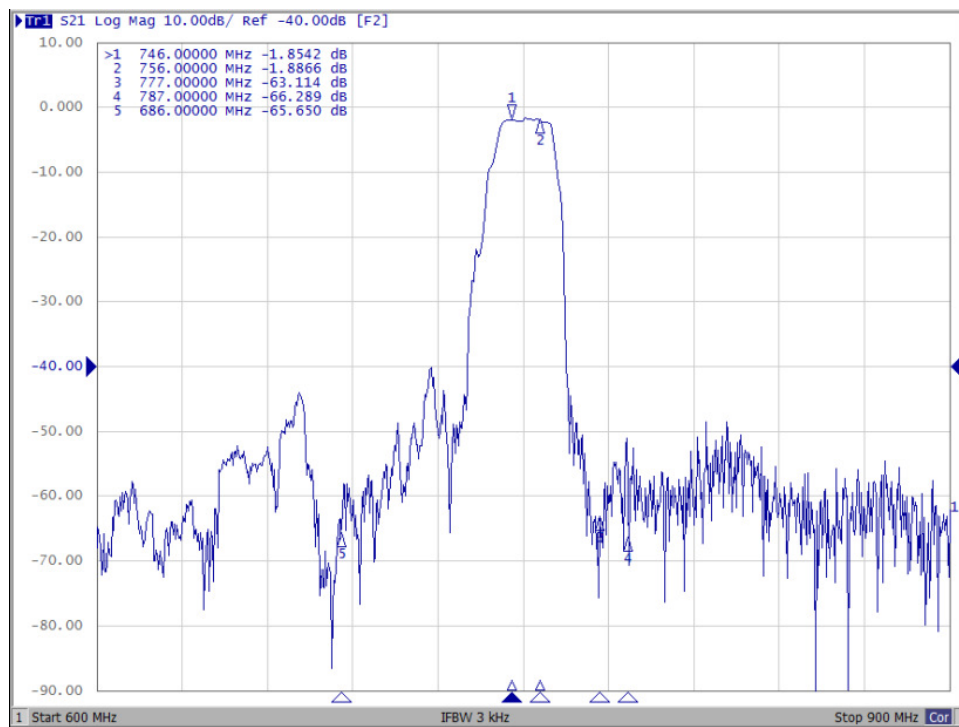
Terminating load impedance : $Z_L = 50 \Omega$

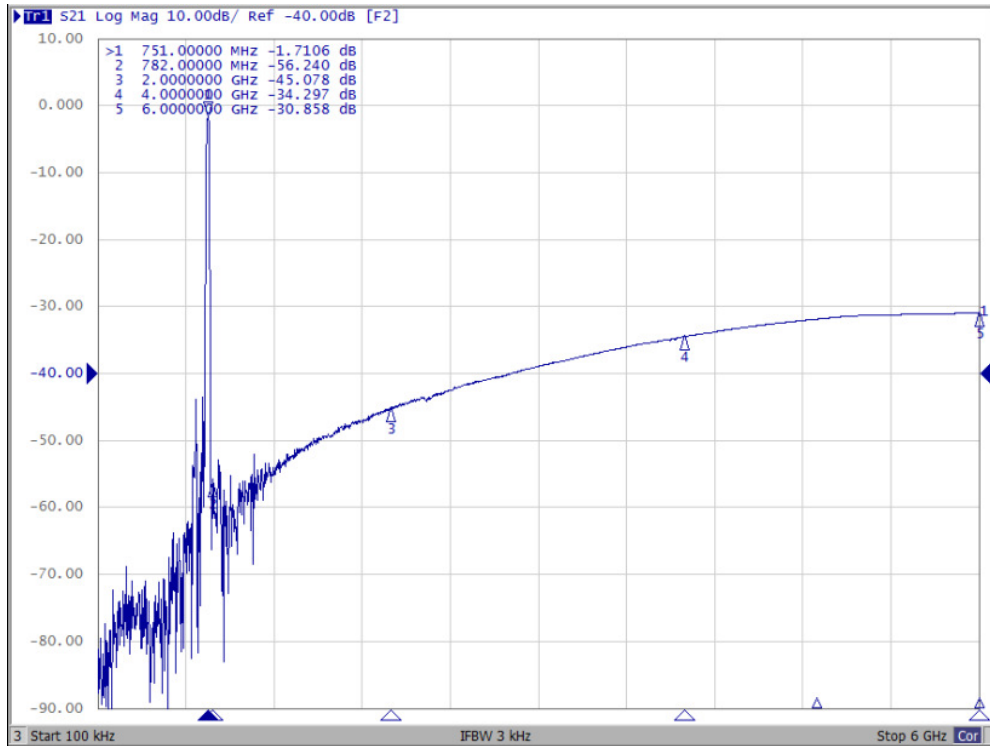
Parameters Description			Unit	Min	Typ	Max	Remarks
Insertion Loss	746~ 756MHz		dB(*1)	-	1.9	2.5	
Amplitude ripple	746~ 756MHz		dB	-	0.5	2	
VSWR	Input	746~ 756MHz	-	-	1.7	2	
	Output	746~ 756MHz	-	-	1.7	2	
Attenuation:							
50~ 686 MHz			dB	30	40	-	
777 ~ 787 MHz			dB	44	50	-	
1710 ~ 1755 MHz			dB	40	45	-	
1850 ~ 1910 MHz			dB	38	44	-	
2400 ~ 2500 MHz			dB	35	41	-	
4900 ~ 6000 MHz			dB	25	35	-	
Input impedance			Ω	50			single-ended
Output impedance			Ω	50			single-ended

(*1) Specification of insertion loss excludes loss that comes from the test board.

C. FREQUENCY CHARACTERISTICS:

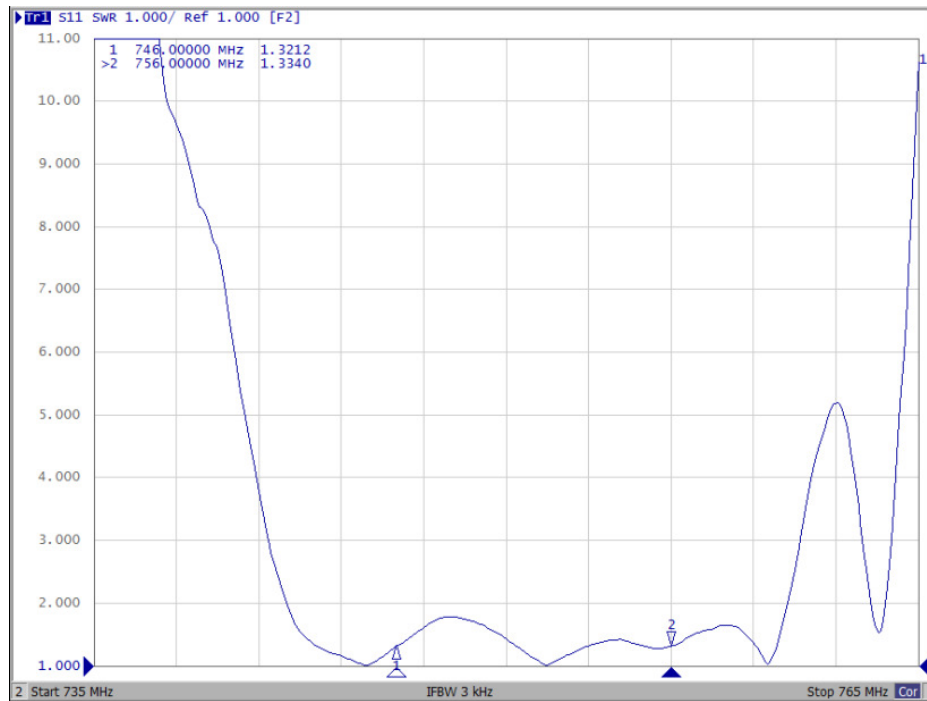
Passband



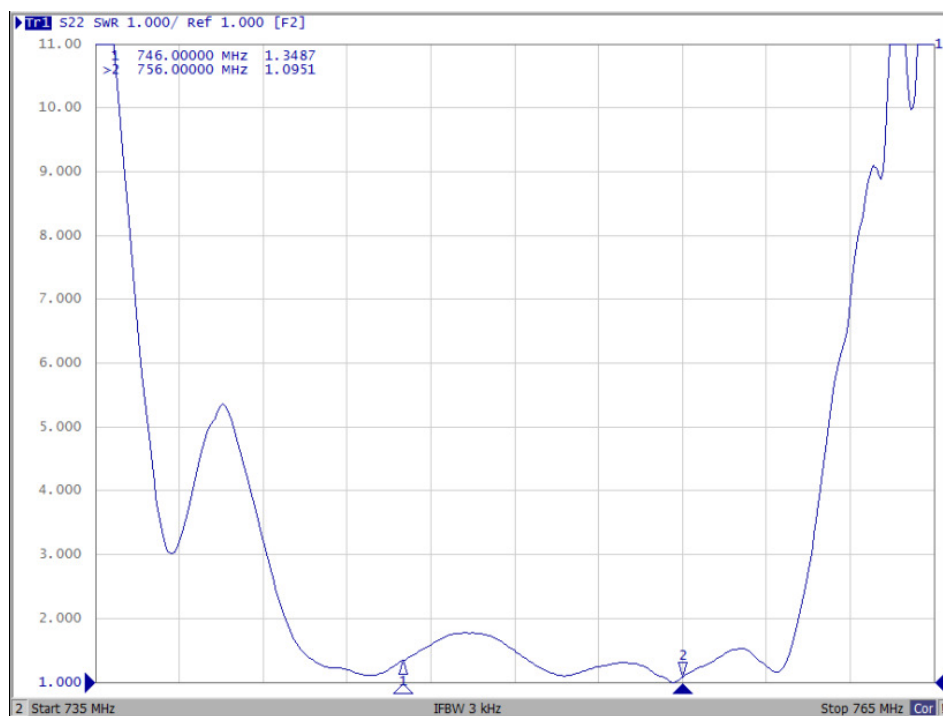


Reflection Functions :

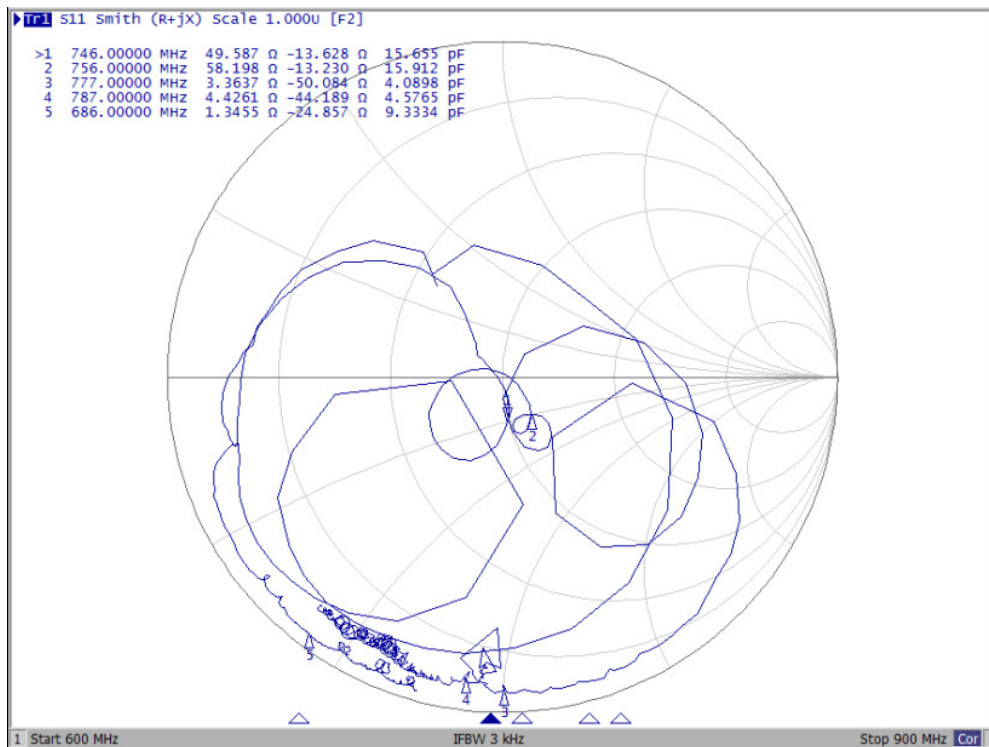
S11 VSWR



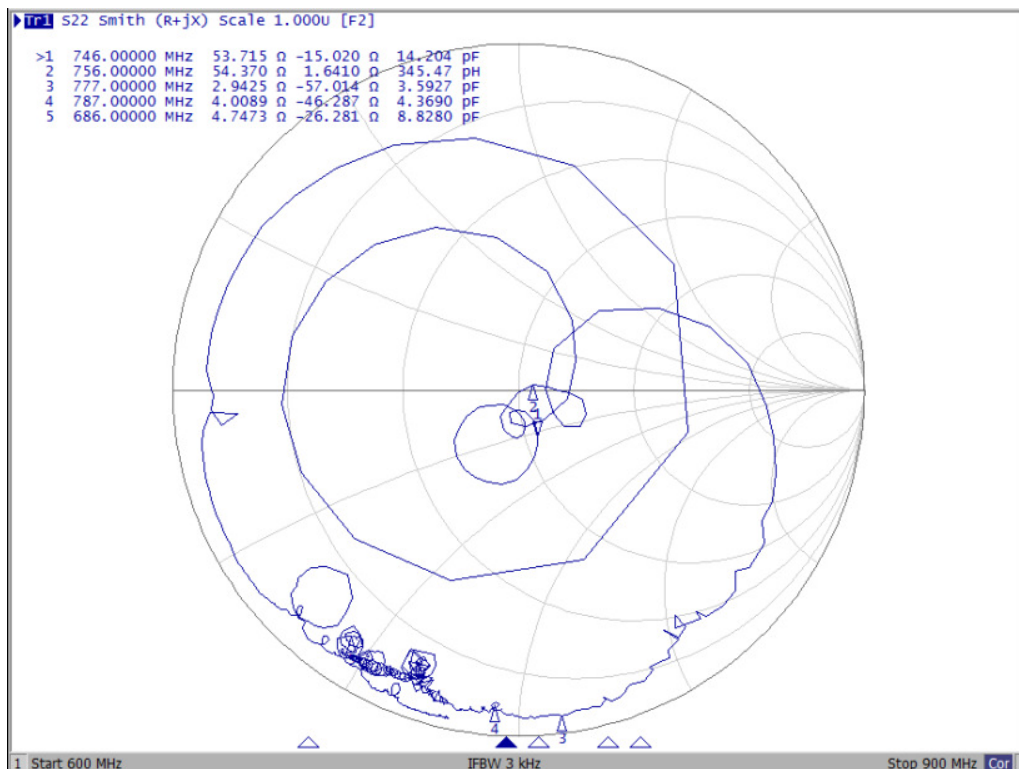
S22 VSWR



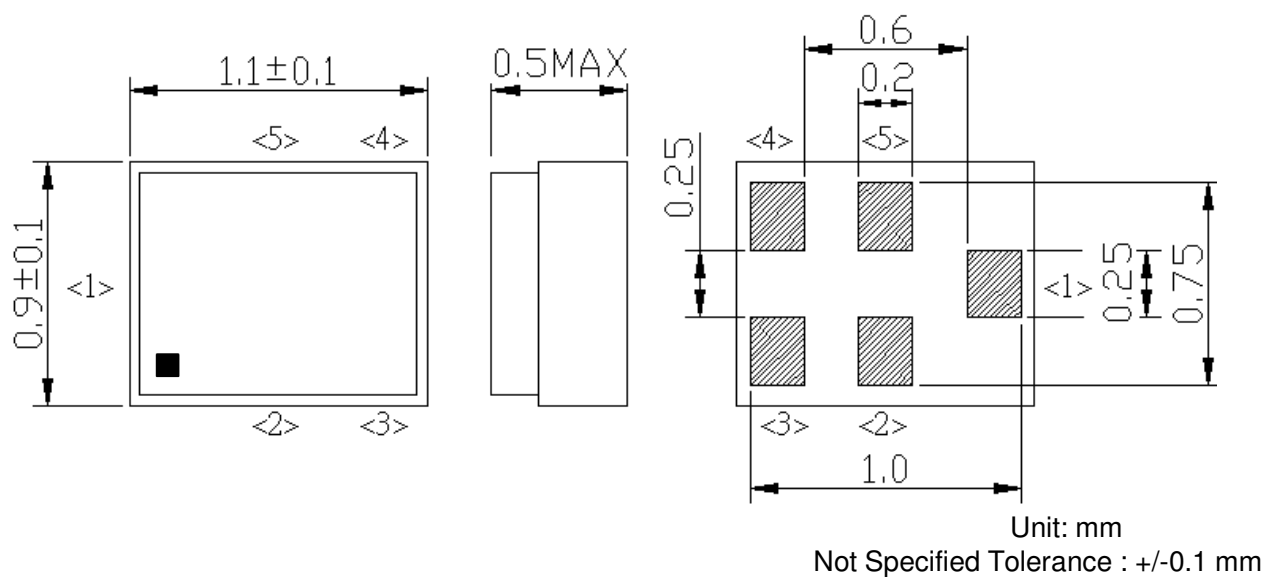
S11 Smith Chart



S22 Smith Chart



D. OUTLINE DRAWING:



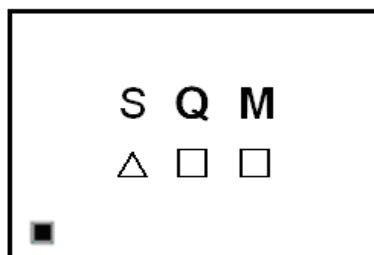
Pin Configuration

Pin No.	Symbol	Function
1	IN	Single-ended pin
2	GND	Ground
3	GND	Ground
4	OUT	Single-ended pin
5	GND	Ground

Top View (Sample Production):



Top View (Mass Production):



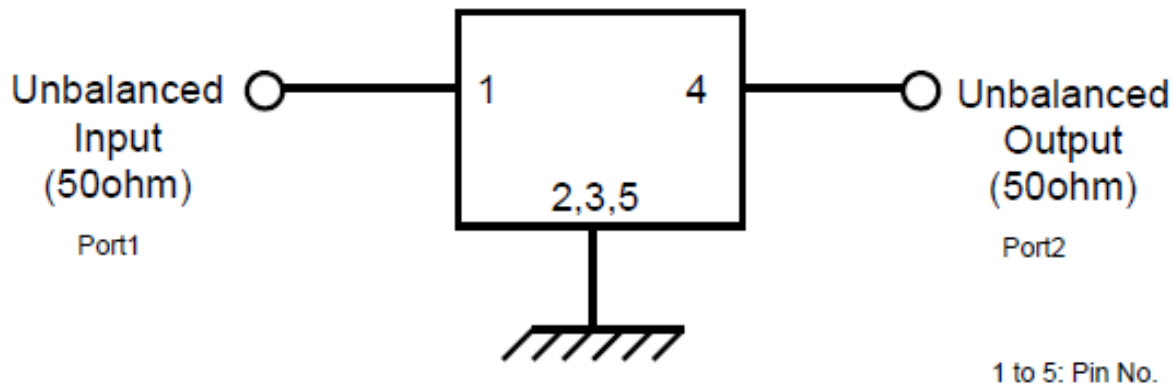
△ : Date Code

□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

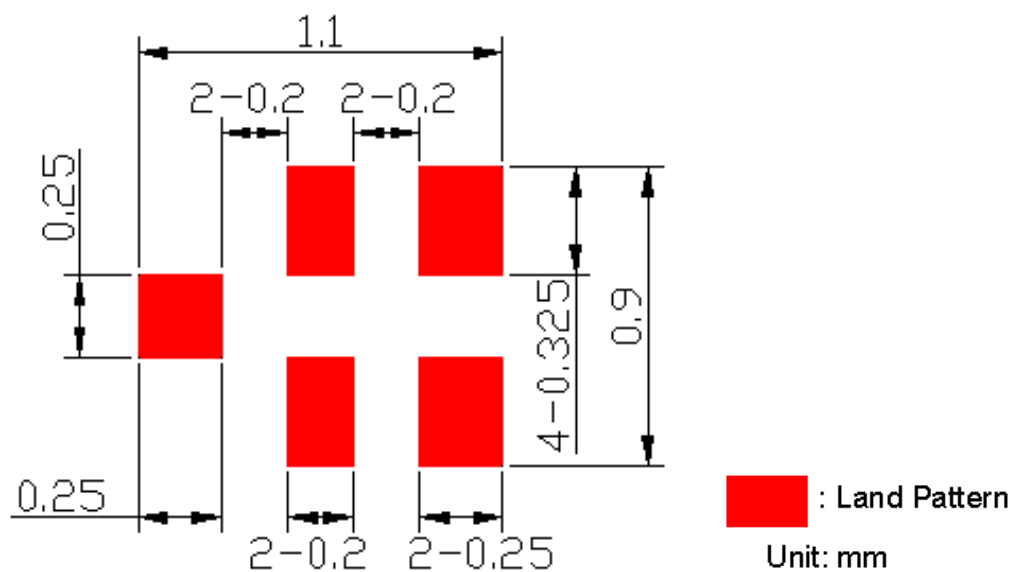
Date Code: Follow below table. (4-year cycle)

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	j	k	l	m
2020	n	p	q	r	s	t	u	v	w	x	y	z
2021	A	B	C	D	E	F	G	H	J	K	L	M

E. MEASUREMENT CIRCUIT:



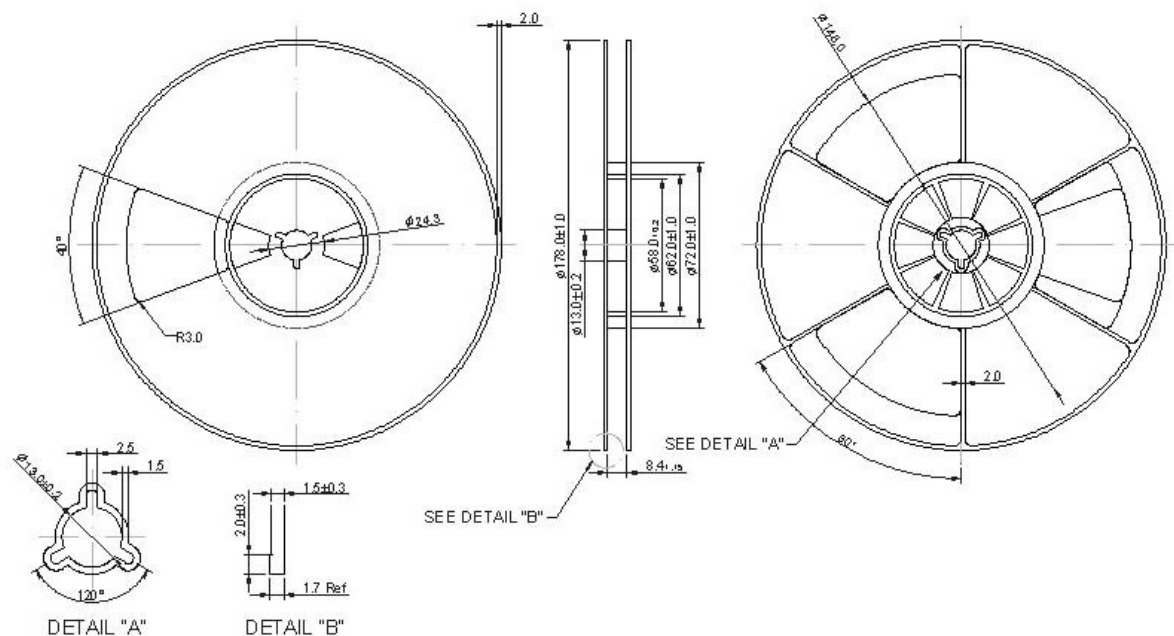
F. FOOTPRINT:



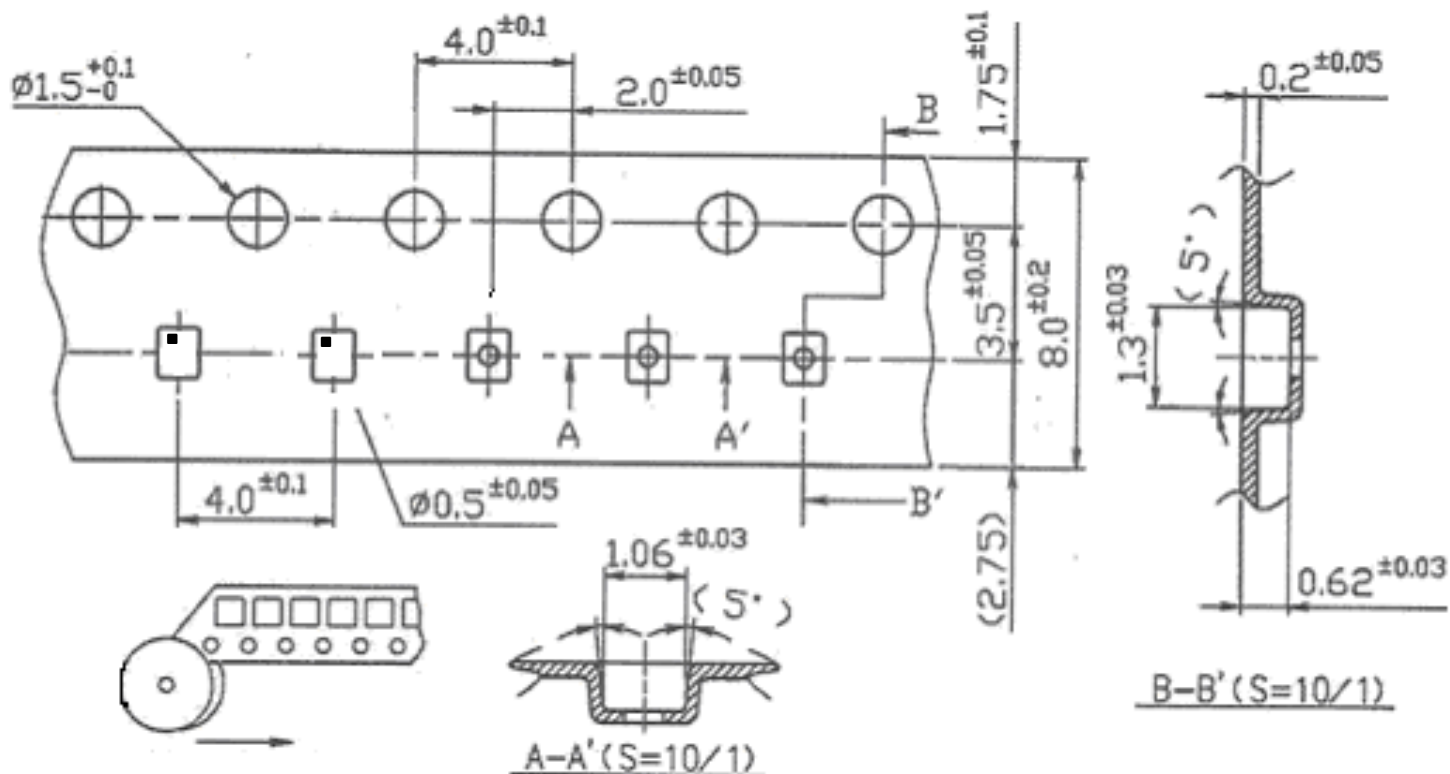
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10sec).
4. Time : 2 times.

